LAKE: MCCURDY P (VLMP 15)
TOWN: BREMEN
COUNTY: LINCOLN

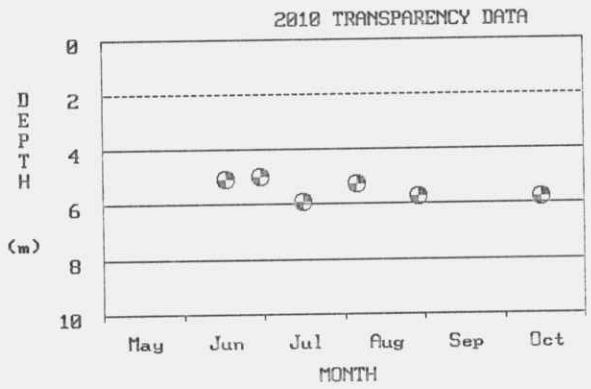
MIDAS: 5712
TRUE BASIN: 1
SAMPLE STATION: 1

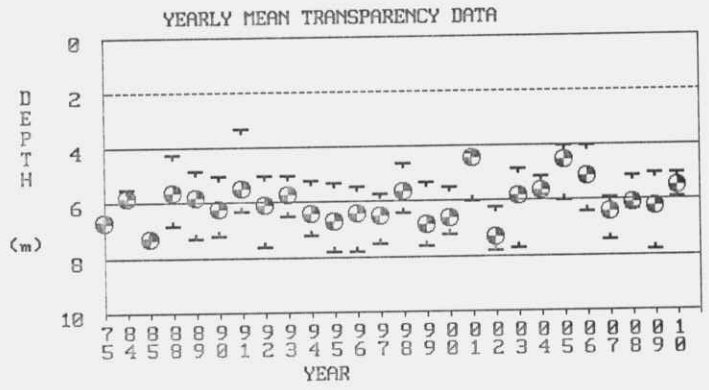
WHOLE LAKE INFORMATION
MAX. DEPTH: 12 m. (41 ft.)
MEAN DEPTH: 5 m. (18 ft.)
DELORME ATLAS #: 07
USGS QUAD: WALDOBORO WEST
IFW REGION B: Belgrade Lakes (Augusta)
IFW FISH. MANAGMENT: Warmwater & Coldwater

TRUE BASIN CHARACTERISTICS
SURFACE AREA: 83.0 ha. (205.1 a.)
FLUSHING RATE: 0.40 flushes/yr.
VOLUME: 4222455.0 cu. m. (3425 ac.-ft.)
DIRECT DRAINAGE AREA: 1.94 sq. km. (0.75 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. MCCURDY P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:





Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visable at bottom of lake (or one reading used in calculation was visable)].

	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (uS /cm)	TOTAL PHOS. MEANS (ppb) EPI CORE	SURF GRAB	BOT. GRAB	PRO. GRAB	SECCHI DISK (m.) MIN.	MEAN	MAX.	N	CHLOROPHYLL A(ppb) MIN.	MEAN	MAX.	TROPHIC STATE INDICES EPI PHOS C	G	SEC	CHL
YEAR																			
1975	-	-	-	-	-	-	-	-	6.7	6.7	6.7	1	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	5.5	5.8	6.0	3	-	-	-	-	-	-	-
1985	15	6.70	3.7	-	8	-	40	-	7.3	7.3	7.3	1	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	4.2	5.6	6.8	6	-	-	-	-	-	43	-
1989	-	-	-	-	-	-	-	-	4.8	5.8	7.3	6	-	-	-	-	-	41	-
1990	-	-	-	-	-	-	-	-	5.0	6.2	7.2	6	-	-	-	-	-	37	-
1991	-	-	-	-	-	-	-	-	3.3	5.5	6.3	6	-	-	-	-	-	43	-
1992	-	-	-	-	-	-	-	-	5.0	6.1	7.6	6	-	-	-	-	-	38	-
1993	-	-	-	-	-	-	-	-	5.0	5.7	6.5	6	-	-	-	-	-	42	-
1994	-	-	-	-	-	-	-	-	5.2	6.4	7.2	5	-	-	-	-	-	36	-
1995	-	-	-	-	-	-	-	-	5.3	6.7	7.8	6	-	-	-	-	-	34	-
1996	20	-	-	-	-	-	-	-	5.4	6.4	7.8	4	-	-	-	-	-	-	-
1997	-	-	-	-	-	-	-	-	5.7	6.5	7.5	5	-	-	-	-	-	35	-
1998	15	-	4.0	38	7	-	17	14	4.6	5.6	6.4	6	2.8	2.9	2.9	-	-	43	-
1999	-	-	-	-	-	-	-	-	5.3	6.8	7.6	5	-	-	-	-	-	33	-

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YEAR																			
2000	-	-	-	-	-	-	-	-	5.5	6.6	7.2	6	-	-	-	-	-	34	-
2001	-	-	-	-	-	-	-	-	4.2	4.4	6.0	5	-	-	-	-	-	55	-
2002	-	-	-	-	-	-	-	-	6.2	7.3	7.8	6	-	-	-	-	-	30	-
2003	12	-	6.5	46	4	-	3	-	4.8	5.8	7.7	6	2.0	2.0	2.0	-	-	41	-
2004	-	-	-	-	-	-	-	-	5.1	5.6	5.8	6	-	-	-	-	-	43	-
2005	-	-	-	-	-	-	-	-	4.0	4.5	6.0	5	-	-	-	-	-	54	-
2006	-	-	-	-	-	-	-	-	4.0	5.1	6.4	6	-	-	-	-	-	47	-
2007	17	6.69	3.2	38	8	-	9	-	5.9	6.4	7.4	5	3.0	3.0	3.0	-	-	36	-
2008	-	-	-	-	-	-	-	-	5.1	6.1	6.3	6	-	-	-	-	-	38	-
2009	7	6.98	4.5	-	6	-	13	-	5.0	6.2	7.8	4	3.5	3.5	3.5	-	-	-	-
2010	-	-	-	-	-	-	-	-	5.0	5.5	5.9	4	-	-	-	-	-	-	-
SUMMARY:	14	6.77	4.4	41	7	-	16	14	3.3	6.0	7.8	26	2.0	2.8	3.5	-	-	40	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

	SAMPLE DATE															
DEPTH	08/19/01		08/03/02		08/19/03		08/12/06		08/14/07		08/16/07		08/27/09		08/28/10	
m	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm	°C	ppm
0.0	25.0	8.1	25.9	8.2	25.3	8.3	23.8	8.4	24.3	7.6	24.0	8.3	25.1	7.9	22.6	8.1
1.0	24.8	8.1	25.3	8.3	25.3	8.2	23.8	8.4	24.1	7.7	23.9	8.4	25.1	7.9	22.4	8.1
2.0	24.2	8.1	25.0	8.3	25.2	8.2	23.8	8.4	24.0	7.8	23.8	8.3	24.9	7.9	22.2	8.1
3.0	23.9	8.1	24.0	8.7	24.8	8.2	23.8	8.4	23.8	7.7	23.8	8.2	24.8	7.8	22.2	7.9
4.0	23.8	8.0	22.9	8.2	24.6	8.1	23.6	8.3	23.6	7.7	23.4	8.1	24.1	7.2	22.0	7.7
5.0	23.5	7.8	21.1	6.7	23.7	7.6	23.2	7.9	22.7	7.3	22.9	7.9	20.6	2.5	21.9	7.5
6.0	19.8	3.9	17.5	3.4	21.0	4.0	17.4	2.0	17.9	2.7	18.7	3.5	18.2	0.1	21.6	7.1
7.0	15.2	2.4	15.3	1.7	16.1	2.6	15.0	1.7	14.7	1.2	14.0	1.8	15.9	0.0	17.5	2.0
8.0	12.9	1.4	14.6	1.6	13.6	1.5	13.2	1.1	12.2	0.4	12.1	1.2	13.1	0.0	14.5	1.9
9.0	10.5	0.3	12.9	1.1	11.6	0.5	12.1	1.0	11.0	0.4	10.4	1.1	12.2	0.0	12.6	1.8
10.0	9.6	0.3	11.6	0.3	10.5	0.3	11.2	0.9	10.1	0.3	9.4	1.1	11.0	0.0	11.1	1.7
11.0	9.3	0.2	11.1	0.3	10.1	0.3	10.8	0.8	9.6	0.3	9.1	1.0	10.4	0.0	10.4	1.6
12.0	9.0	0.2	-	-	10.0	0.3	10.7	0.8	-	-	9.0	0.9	10.1	0.0	10.0	1.5
13.0	8.9	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

WATER QUALITY SUMMARY

MCCURDY, Bremen
Midas: 5712, Basin: Primary

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate present water quality, track algae blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data for McCurdy Pond has been collected since 1975. During this period, three years of basic chemical information were collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of McCurdy Pond is considered to be above average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). However, oxygen conditions are below average. The potential for nuisance algal blooms on McCurdy Pond is low-moderate.

Water Quality Measures: McCurdy Pond is a non-colored lake (average color 16 SPU) with an average SDT of 6.1 m (20.2 ft). The range of water column TP for McCurdy Pond is 4-8 parts per billion (ppb) with an average of 6 ppb, while Chla ranges from 2.0-2.9 ppb with an average of 2.4 ppb. Recent dissolved oxygen (DO) profiles show moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is moderate, and there are some signs that this is happening to a limited degree. Oxygen levels below 5 parts per million stress certain cold water fish, and a persistent loss of oxygen may eliminate or reduce habitat for sensitive cold water species. In this pond, much of the area that would be preferred by cold water species is too low in oxygen to be good habitat in late summer.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at http://www.lakesofmaine.org/ and/or http://www.maine.gov/dep/blwq/lake.htm, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: McCu5712, Revised: 3/06 by rjb